

DOI 10.26886/2523-6938.1(1)2017.1

UDC 61:57:577.23

**«TRADITIONAL» AND «ALTERNATIVE» APPROACHES
FOR EVALUATION OF BIOENERGY MECHANISMS
IN MEDICINE AND BIOLOGY**

L. P. Zubkova, MD, PhD, DSc

V. A. Bocharov, MD, PhD, DSc

Medical Centre «ORTO-DENT/BIO-DERM», Ukraine, Odessa

Subject of research is analysis of various approaches to the problem of bioenergy in living organisms. According to this goal were determined subjects, main directions of scientific research as «traditional» and «alternative» approaches in energo-informational medicine and biology. An essential feature of the publications in the new journal on bioenergy will be is the integration of the achievements of various branches of this science and their interpretation in relation to medical and biological practice.

Keywords: integrative analysis of scientific and practical research in energy-information medicine and biology.

Доктор медицинских наук, профессор, Зубкова Л. П.; доктор медицинских наук, профессор, Бочаров В. А. «Традиционные» и «нетрадиционные» подходы к оценке биоэнергетических механизмов в медицине и биологии / Медицинский центр «ORTO-DENT/BIO-DERM», Украина, Одесса

Предмет исследования – анализ различных подходов к проблеме биоэнергетики в живых организмах. С этой целью определены объекты, основные направления научных исследований как «традиционных», так и «нетрадиционных» подходов в энерго-информационной медицине и биологии. Существенной

особенностью публикаций в создаваемом новом журнале по биоэнергетике будет интеграция достижений различных отраслей данной науки и их интерпретация применительно к медико-биологической практике.

Ключевые слова: интегративный анализ научно-практических исследований в энерго-информационной медицине и биологии.

Bioenergy is a dynamically developing branch of the science of living organisms, which is closely linked to the scientific and technological progress in the area of creating fundamentally new sources of physical fields and their application in biology, and especially in medicine, where these types of therapeutic physical effects are used in the treatment regimens of patients with various diseases, and as having predominantly pathogenetic effects, and as having great significance for increasing the nonspecific resistance of the body, restoring the fur the rules of regulation of its functions. Developments in the field of biology and medicine have made a significant contribution to understanding the functioning of a living organism as the most complex holistic system.

As well as other therapeutic methods using physical factors of influence, the use of bioenergy in medicine made it possible to form new methodological approaches in the modern concepts of evidence-based and personalized medicine, and to choose a treatment strategy.

To work on the new journal, a group of scientists, programmers, managers, who, after consulting with a large number of specialists in the field of bioenergy, has developed a concept of the publication, stages, consistency and timing for their implementation. The main aim of the new magazine is to provide readers with the latest information necessary for raising the level of their education in the field of bioenergy of living organisms both at the theoretical and practical levels.

According to the goals, the main objectives of the journal for medical research are: the analysis of modern sources of reliable scientific and practical information, the compilation of generalizing materials in various areas (diagnosis, treatment, prevention) with the involvement of researchers from different countries of the world. Despite the fact that in the 21st century this new section of medicine is among the most attractive ones (taking into account the creation of fundamentally new sources of various physical fields successes in the field of electronics, the development of nanotechnologies, the triumph of analytical approaches to studying the molecular level of life), the pages of the journal will pay attention to the close connection of this type of scientific publication with other branches of science, including – and in the historical connection of their development.

If we briefly recall the first reports about the positive influence of bioenergetic methods of treatment, one can not fail to mention the work of such doctors of the Ancient World as Scribony Larg (used in the treatment of migraine, applying to the head of the ends of the electric skate, and with gout – tubs with electric fish), Claudia Galen (using the magnet as a means of constipation), Jen-Tzu-therapy in Ancient China, the work of Abu Ali Ibn Sina, and others. Many scientists of the Renaissance, who often experienced the effect of their phenomena of electric and magnetic nature on themselves (W. Gilbert, B. Franklin, R. Broil, and others), made an extremely important contribution to the development of bioenergy as a science. The predominantly descriptive approach to studying the actions of physical factors on living organisms in the future yielded to the «palm of superiority» to a scientific approach, and in this regard, the work of A. Humbolda (using constant current for the treatment of patients), B. de Duchen, R. Erba, J. Tsimsen (who founded the methods of electrostimulation of nerves), R. Brenner (who is actually the founder of

electrodiagnostics on the basis of his used polar method of irritation of nerves and muscles), J. A. d'Arssonval (who applied high frequencies currents in the treatment of patients). Already in 1903, the world's scientific community was the first to appreciate the achievements in the field of bioenergy (Nobel Prize for Scientific Research by N. R. Finzen).

The discovery of fundamentally new sources of various types of energy in the 20th century (magnetic fields – M. Kovarshik 1927; ultrahigh-frequency electric fields – E. Schlifake, 1928; ultrasound – R. Polman, 1939; diadynamic currents – P. Bernard, 1950, etc.) to form the first concepts, hypotheses, theories, which in one way or another concern bioenergetics (informational and cybernetic theory of life, the theory of synergetics and open systems, the idea of biological resonance, etc.).

The *object* of studying bioenergy in medicine is a person exposed to the corresponding physical factors, and the main *method* of scientific knowledge of the phenomena studied in this section of science is the combination of morphofunctional evaluation of the effects of such factors on cells and tissues with clinical methods for assessing the state of patients with various diseases and analyzing the data obtained, primarily by methods of dialectical logic. Such categories of medicine that are used in other methods of physical exertion on a person as a therapeutic physical factor, physical method of treatment, procedure technique are also used in bioenergy as they are combined by laws applicable to the physical forms of the motion of matter.

In bioenergetics from medical physical factors, preference is given to such currents, fields, oscillations and, in accordance with the energy and types of its carriers, the following sections of bioenergetic action on a person are distinguished as: electro-, magnetotherapy, etc., and among the main groups of treatment methods are isolated – Acupuncture, Magnetotherapy, etc.

The main areas of scientific research in modern bioenergy include not only the research of the mechanisms of the therapeutic effect of such methods of influence on the organism, but also their scientific substantiation, individual optimization and bioregulated regulation, modern methodology for evaluating the effectiveness, development of innovative technologies. This is dictated by the significant advantages of bioenergy methods of exposure to the organism, and above all such as the expansion of the range of therapeutic effects, the potentiation of most medicines, the practical absence of side effects, painlessness, non-invasiveness, etc. The effects of physical factors are also represented by a combination of developing interconnected processes that are formed, obeying the laws of the distribution of the energy of the physical factor over time in space, as well as the properties of tissues by absorbing the energy of this factor and selective sensitivity to it, and consequently, and the low thresholds of its sensory perception, which allows to include functional reserves of adaptation and reactivity of the organism. Energy brought in by physical factors in biological structures substantially changes their metabolism and functional properties, which corresponds to the characteristics of information influence.

In analyzing the use of bioenergetic methods of exposure to the organism, the researcher should clearly adhere to the dialectics of the relationship between the various of them (the laws of "specificity", "selectivity", etc.) and must take into account information synergistic features of the body as they are used in patients with disorders of the systems of regulation of functions (dyshormonal disorders, neuroses, allergies), and with saved reserves of functions of executive physiological systems. Given the need for a differentiated choice of the type of energy used, attention is paid to the rational use of specific methods of exposure, observing the principles of unity, syndrome-pathogenetic and clinical-

functional approaches in order to restore the patients to the lost functions. In this connection, it is also necessary to combine etiopathogenetic and symptomatic methods of action that both attenuate (or eliminate) the etiologic factor, and, by interfering with the pathogenetic links, eliminate the main symptoms of the disease. A significant place in the bioenergetic impacts is taken by approaches that take into account the possibility of influencing both the pathological focus and the segmental (on the reflexogenic zones) and the generalized action on the whole organism, both directly. This is dictated by the peculiarities of organizing the systems of regulating the functions of the organism and, above all, their predominant localization in the brain and the close interconnection of the skin with the internal organs.

The principle of individuality of the use of bioenergetic effects includes the accounting of age, sex, constitutional type, reactivity of the organism, individual biorhythms, the level of vegetative regulation, the presence of concomitant diseases, individual contraindications and basic medical therapy. In bioenergetics, such general clinical principles of the use of physical factors as course treatment, optimality, dynamism, and complexity of treatment are used.

Particular attention is paid to such mechanisms of exposure to the pathological focus, which are observed at the simultaneous application of several physical factors, such as potentiation (when the action of one physical factor is potentiated by others) or comprament (when physical factors act on different pathogenesis units). It is thanks to such mechanisms that can often be marked by manifestations of new therapeutic effects, eliminating undesirable effects, and ensuring the influence of both a greater number of body systems and the links of the pathological process.

The above principles of «traditional» approaches to the problems of bioenergy medicine and biology will to a large extent extend to the so-called «alternatine» the interpretation and practice of this method of exposure to living organisms. The relevance of the publications in this part of the magazine is beyond doubt, as more and more reliable data on the successes of various types of energy-medical treatment is increasingly available worldwide.

Currently, the energy world around us is often studied on an international scale, while discovering structures that mankind has not anticipated (the so-called «Leu Lines» – the acupuncture point of the Earth, the lattice mesh of dependence on the star-time local time, the elements of the rudimentary consciousness of the vacuum domains and others), and moreover – the entire planet is considered as, a quote. by H. Treugut: «... the object, structure and function of which, as well as the existence of the population, depend on the energy and information fields that extend across the continents and correspond to them with the universe».

Undoubtedly, in this part of the publications on bioenergy medicine and biology, we will take into account the fact that we still do not know about subtle-material energy, and in principle, even its various names (prana, quantum potentials, etc.) are problematic even now, However, HPE is still recognized as «High Penetrating Emission», and this «radiation» can only be detected indirectly by its effects on water, quantum processes, or on biological systems. That is why, on the pages of the new journal, the work of researchers in various fields of science will be published, which are already being intensively conducted in most countries of the world (Germany, France, Great Britain, USA, Canada, Russia, Bulgaria, Serbia, Austria, Switzerland, Israel, Greece, Ukraine and otherboth in medical universities, clinics, and in scientific and research institutions of theoretical and experimental biophysics, centers of innovative technologies, institutes

of biology, agriculture, physical education and sports institutes, homeopathic centers, centers of bioresonance medicine, biosensory institutes and bioenergy researches of the environment, departments of acupuncture medicine, scientific societies of energy and information medicine, laboratories of deterministic research, scientific research centers music therapy and and renewable technology and others.

Bioenergy research conducted in medicine is closely linked with new discoveries in the field of biology, and especially – microbiology. This is due to the fact that the number of microbial cells (10^{15} - 10^{16}) is approximately two orders of magnitude higher than the number of human cells in the human body, and in the gastrointestinal tract bacteria are 10 times greater than cells of the host organism, in their biomass reaching 2.5 – 3 kg. So far, little attention is being paid to the fact that mitochondria of cells are energy converters for intracellular reactions, concentrated in places of high consumption of ATP (adenosine triphosphoric acid), and at the same time it is assumed that this organelle originated from aerobic symbiosis penetrated into anaerobic eukaryotic cell by endocytosis and started to participate in its oxidative processes. It is in this regard that they have their own genome.

In view of the fact that many magazines do not take sufficient account of modern concepts and discoveries of science (including medicine, biology, physics, chemistry, etc.) in the journal «Bioenergetics in medicine and biology», multivectoral reliable communications with integrative scientific and practical significance in this relevant branch of human knowledge.

Literature:

1. Bossert Frank-P., Vogedes Kl. *Elektrotherapie, Licht- und Strahlentherapie.* – Munchen-Jena: Urban und Fisher, 2007. – 210 p.

2. *Physical Medicine and Rehabilitation. Principles and practice.* – 4nd edition / Ed. by J. A. Delisa. – Lippincott: Williams and Wilkins, 2005. – 870 p.
3. *Physical Therapists Clinical Comparion* / Ed. by P. H. Johnson. – Springhouse Corporation, 2000. – 463 p.
4. Merk I. Greene, Youhai H. Chen. *Frontiers in Immunology.* – Totowa, New-Jersey, Humana Press, 2003. – 301 p.
5. Akaeva T. V. *Objectivity of homeopathic constitution* / T. V. Akaeva, K. M. Mkhitaryan // Теоретические и клинические аспекты применения биорезонансной и мультирезонансной терапии: Тезисы и доклады XXII Международной конференции. – М.: ИМЕДИС, 2016. – С. 30-36.
6. Leopold C. *Method for improving learning for children with use of HCS «IMEDIS-EXPERT»* / C. Leopold // Теоретические и клинические аспекты применения биорезонансной и мультирезонансной терапии : Тезисы и доклады XXII Международной конференции. – М.: ИМЕДИС, 2016. – С. 100-106.
7. Kempe N. *From simple to complex. The basis for creation of therapy conception* / N. Kempe // Теоретические и клинические аспекты применения биорезонансной и мультирезонансной терапии : Тезисы и доклады XXII Международной конференции. – М.: ИМЕДИС, 2016. – С. 202-209.
8. Treugut H. *Diversity of Earth energetics* / H. Treugut // Теоретические и клинические аспекты применения биорезонансной и мультирезонансной терапии: Тезисы и доклады XXII Международной конференции. – М.: ИМЕДИС, 2016. – С. 286-287.
9. Shraibman M. M. *Transformer of preparation's spectrum in vegetative resonance test* / M. M. Shraibman, K. L. Levkov // Теоретические и клинические аспекты применения биорезонансной и

мультирезонансной терапии: Тезисы и доклады XXII Международной конференции. – М.: ИМЕДИС, 2016. – С. 336-342.

10. Shushardjan S. V. *Conceptual and technological features of Russian school of scientific music therapy / S. V. Shushardjan // Теоретические и клинические аспекты применения биорезонансной и мультирезонансной терапии: Тезисы и доклады XXII Международной конференции.* – М.: ИМЕДИС, 2016. – С. 357-362.

11. Махонькина Л. Б. *Резонансный тест. Возможности диагностики и терапии // Л. Б. Махонькина, И. М. Сазонова.* – М., 2000 – 740 с.

References:

1. Bossert Frank-P., Vogedes Kl. *Elektrotherapie, Licht- und Strahlentherapie.* – Munchen-Jena: Urban und Fisher, 2007, 210 p. [in English].

2. Delisa J. A. *Physical Medicine and Rehabilitation. Principles and practice.* – 4nd edition. Lippincott: Williams and Wilkins, 2005, 870 p. [in English].

3. Johnson P. H. *Physical Therapists Clinical Comparion.* Springhouse Corporation, 2000, 463 p. [in English].

4. Merk I. Greene, Youhai H. Chen. *Frontiers in Immunology.* Totowa, New-Jersey, Humana Press, 2003, 301 p. [in English].

5. Akaeva T. V., Mkhitarian K. M. Objectivity of homeopathic constitution. *Teoreticheskie i klinicheskie aspekty primeneniya biorezonansnoj i mul'tirezonansnoj terapii: Tezisy i doklady XXII Mezhdunarodnoj konferencii.* Moscow: IMEDIS, 2016, pp. 30-36. [in Russian].

6. Leopold C. Method for improving learning for children with use of HCS «IMEDIS-EXPERT». *Teoreticheskie i klinicheskie aspekty primeneniya biorezonansnoj i mul'tirezonansnoj terapii: Tezisy i doklady XXII Mezhdunarodnoj konferencii.* Moscow: IMEDIS, 2016, pp. 100-106. [in Russian].

7. Kempe N. From simple to complex. The basis for creation of therapy conception. *Teoreticheskie i klinicheskie aspekty primeneniya biorezonansnoj i mul'tirezonsnoj terapii: Tezisy i doklady XXII Mezhdunarodnoj konferencii*. Moscow: IMEDIS, 2016, pp. 202-209. [in Russian].
8. Treugut H. Diversity of Earth energetics. *Teoreticheskie i klinicheskie aspekty primeneniya biorezonansnoj i mul'tirezonsnoj terapii: Tezisy i doklady XXII Mezhdunarodnoj konferencii*. Moscow: IMEDIS, 2016, pp. 286-287. [in Russian].
9. Shraibman M. M., Levkov K. L. Transformer of preparation's spectrum in vegetative resonance test. *Teoreticheskie i klinicheskie aspekty primeneniya biorezonansnoj i mul'tirezonsnoj terapii: Tezisy i doklady XXII Mezhdunarodnoj konferencii*. Moscow: IMEDIS, 2016, pp. 336-342. [in Russian].
10. Shushardjan S. V. Conceptual and technological features of Russian school of scientific music therapy. *Teoreticheskie i klinicheskie aspekty primeneniya biorezonansnoj i mul'tirezonsnoj terapii: Tezisy i doklady XXII Mezhdunarodnoj konferencii*. Moscow: IMEDIS, 2016, pp. 357-362. [in Russian].
11. Mahon`kina L. B., Sazonova I. M. *Rezonansnyj test. Vozmozhnosti diagnostiki i terapii [Resonance test. Possibilities of diagnostics and therapy]*. Moscow, 2000, 740 p. [in Russian].